

FIG. 1A

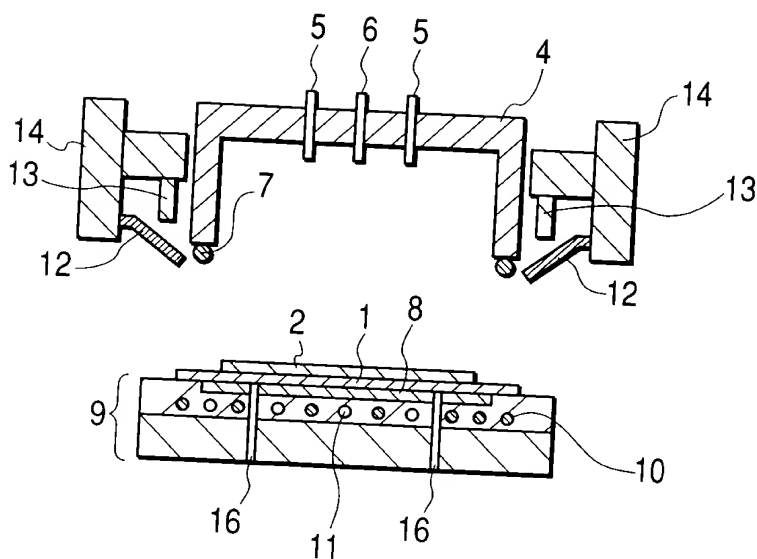


FIG. 1B

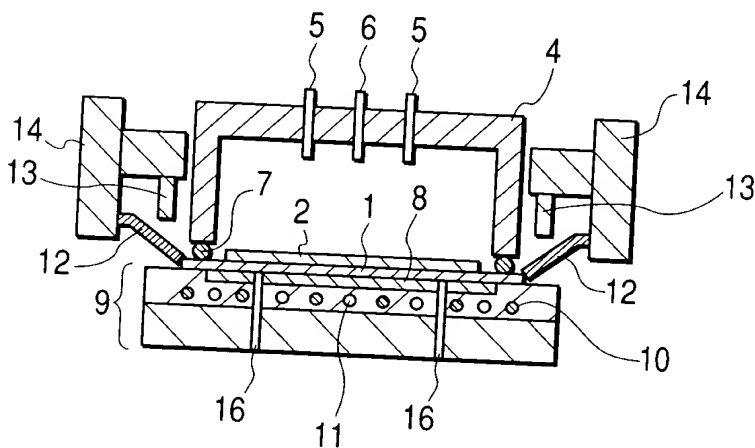


FIG. 1C

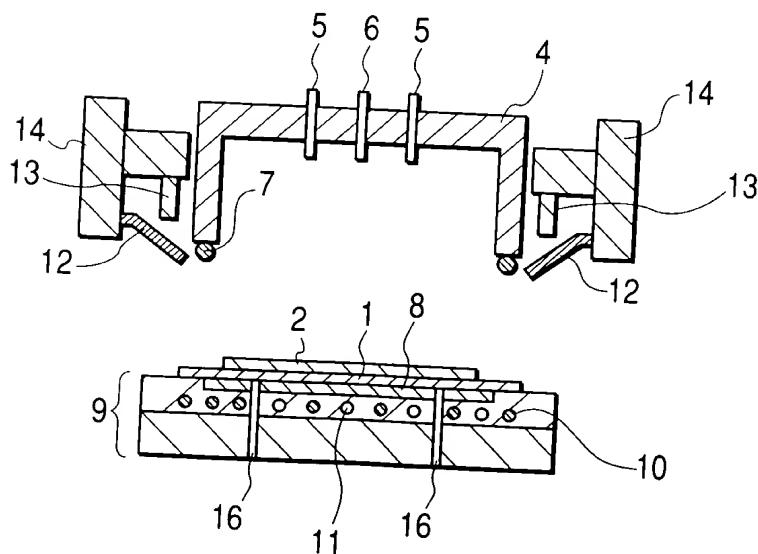
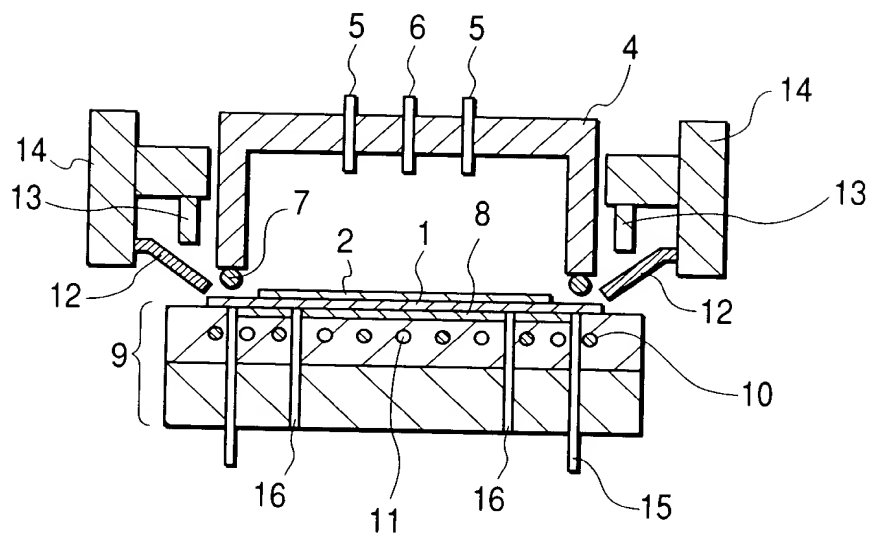


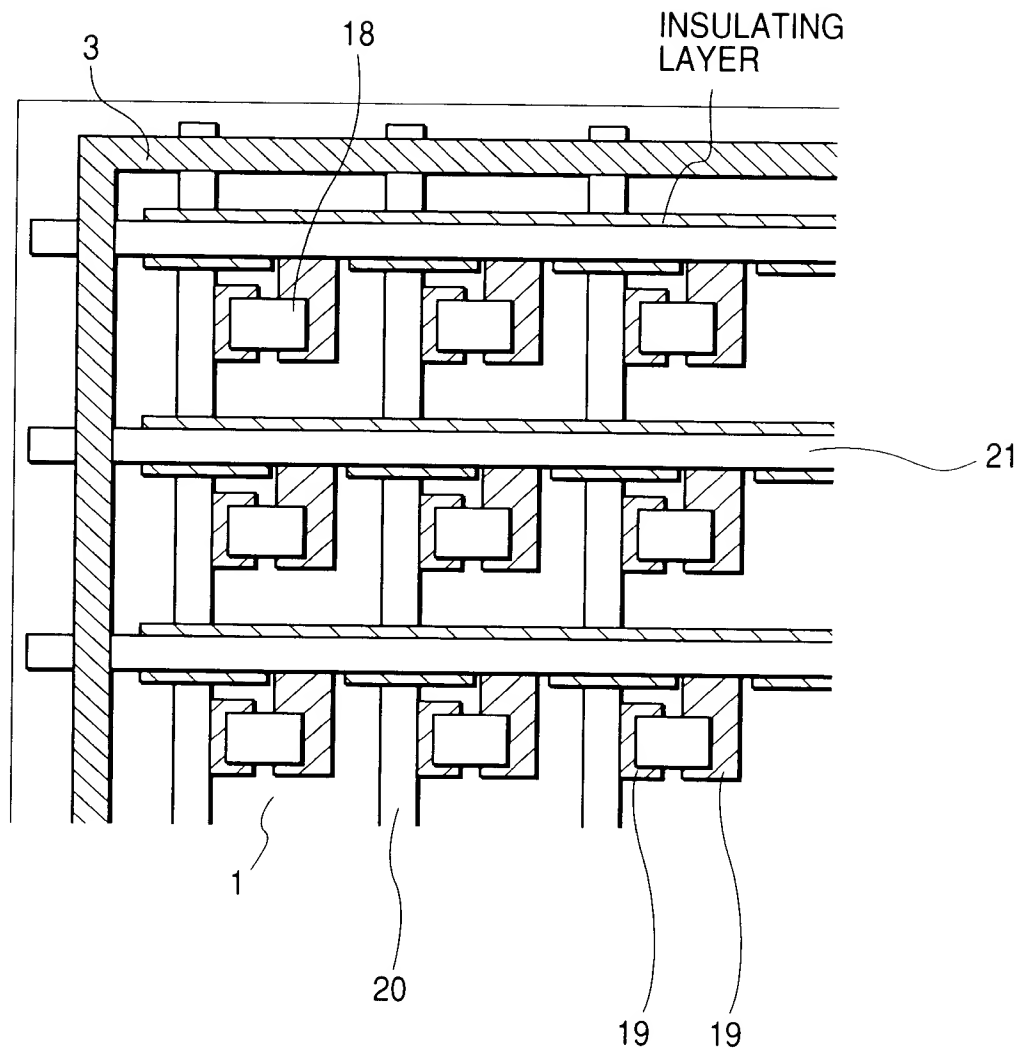
FIG. 1A

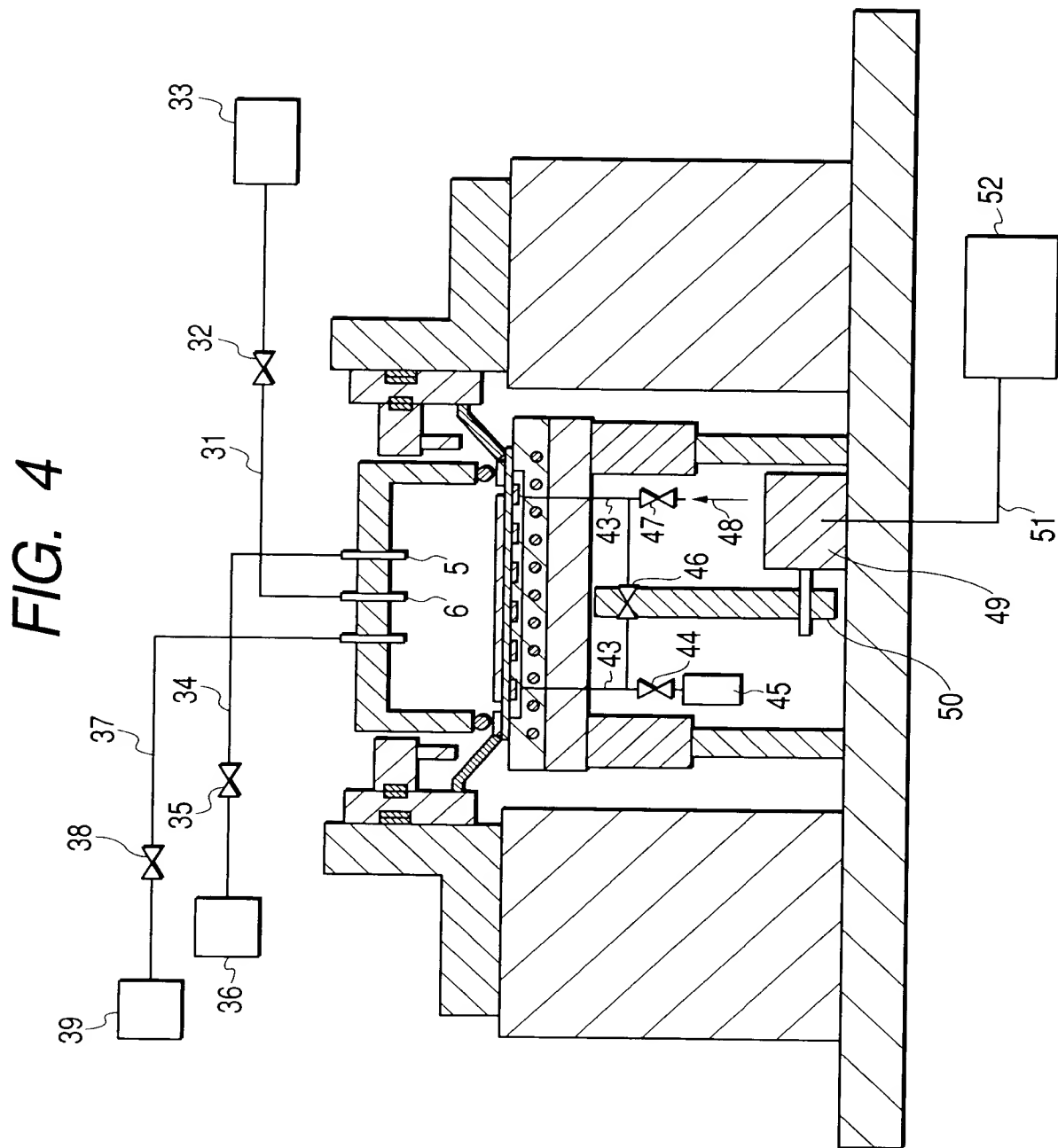
FIG. 2



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FIG. 3





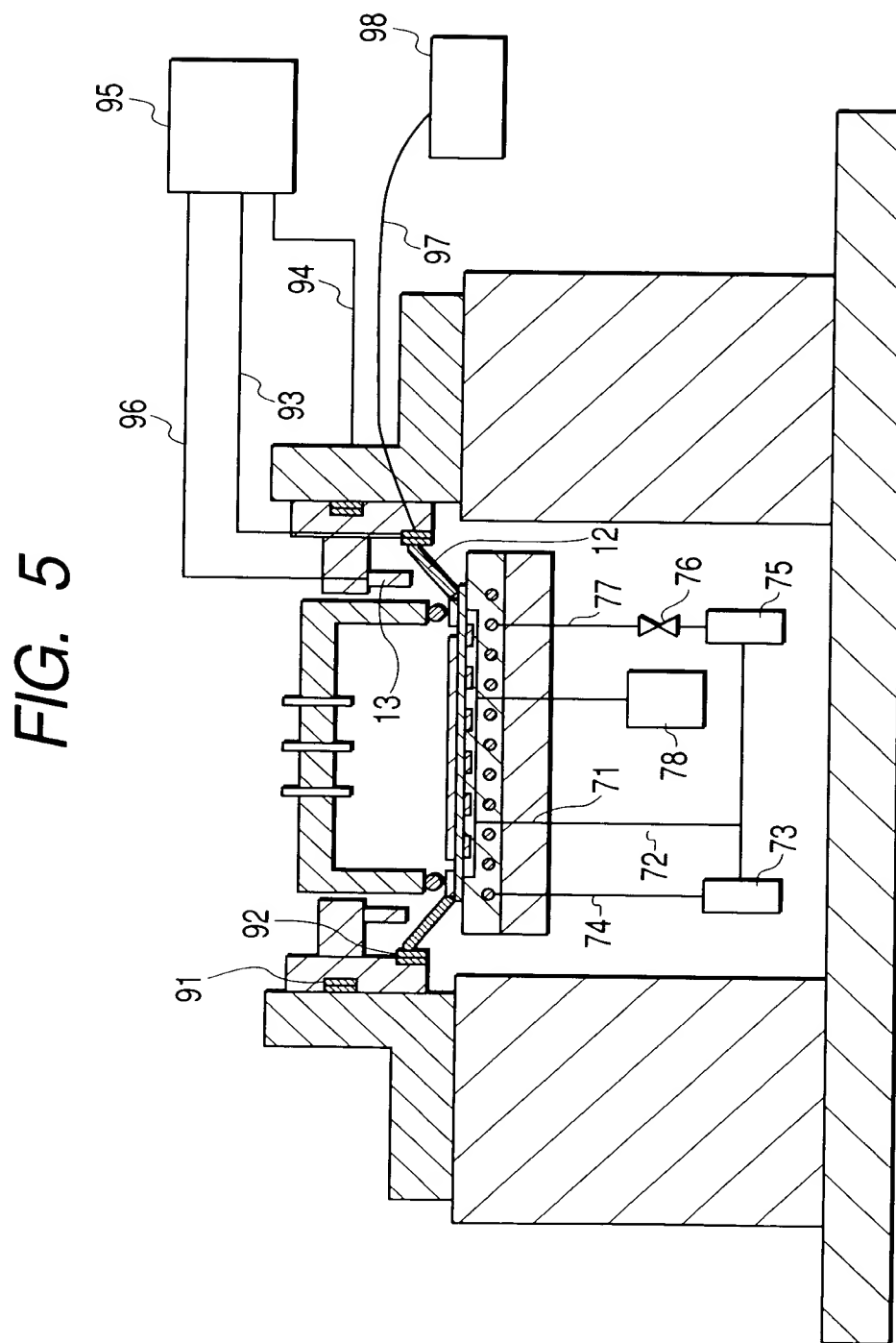
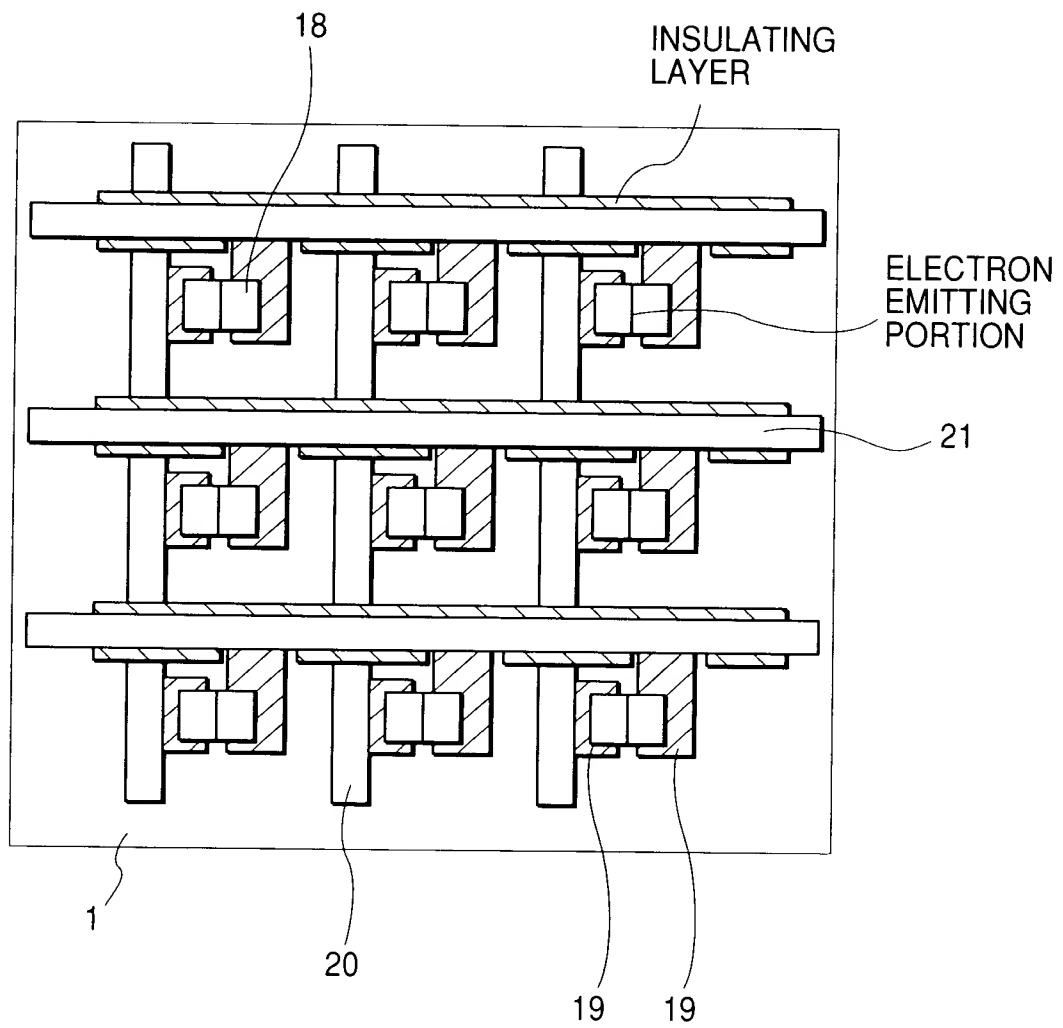
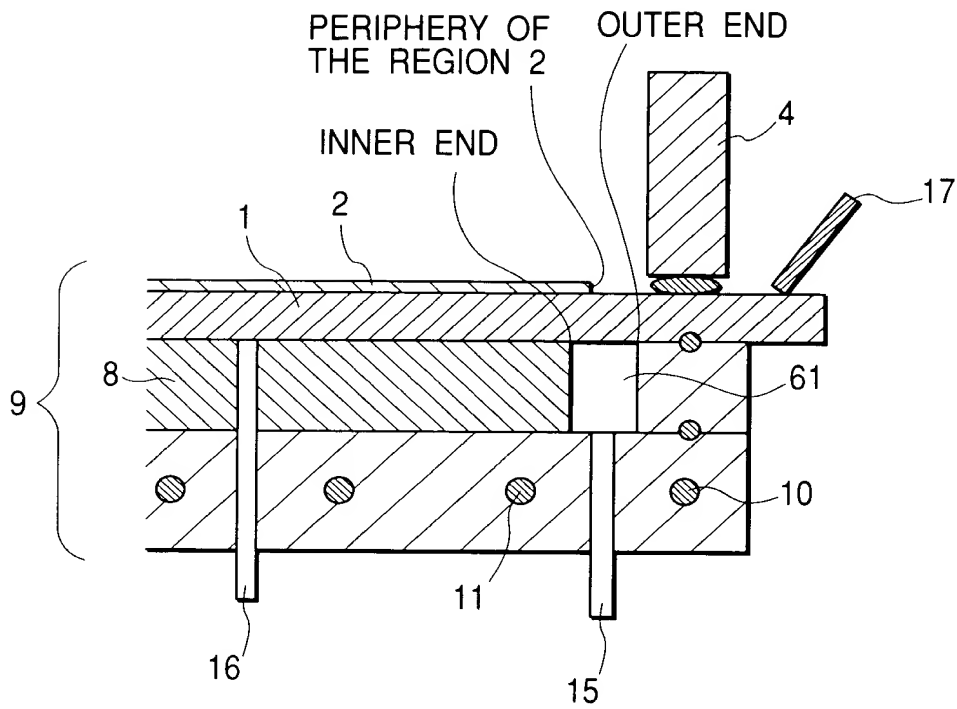


FIG. 6



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**FIG. 7**



**FIG. 8**

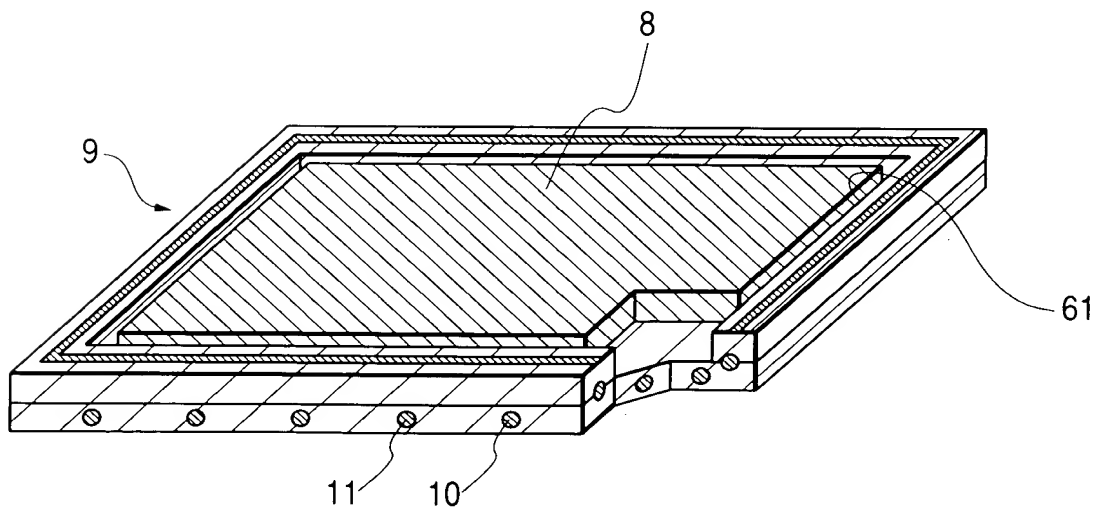


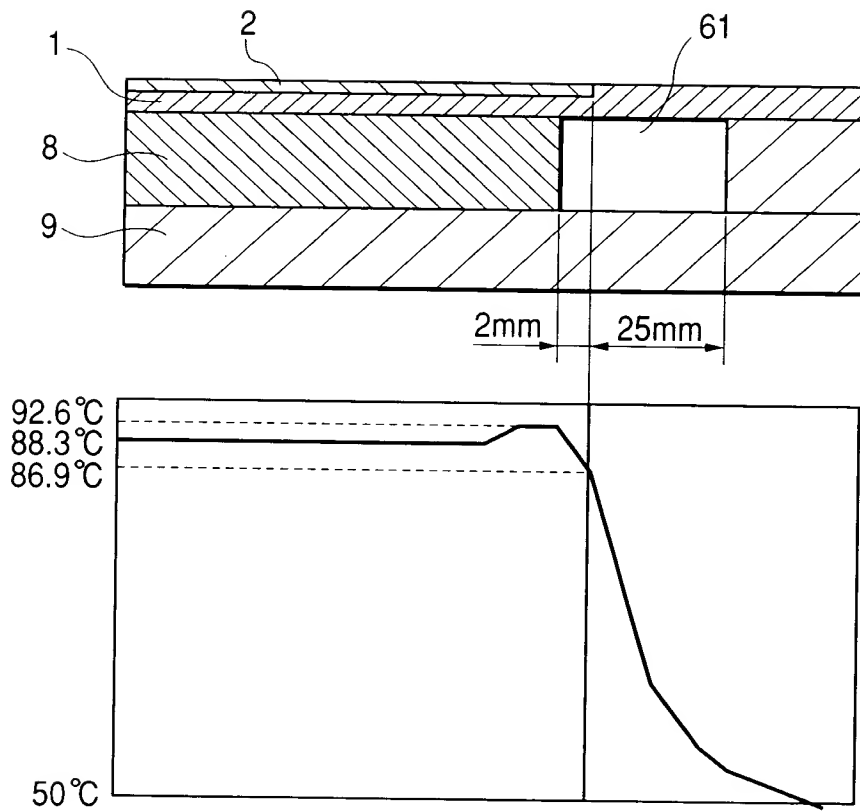
Figure 1 consists of two parts. The top part is a schematic diagram of a specimen cross-section. It shows a central rectangular feature labeled 61. To its left, there are three distinct layers: a thin top layer labeled 1, a middle layer labeled 8, and a bottom layer labeled 9. A layer labeled 2 is also indicated above the central feature. Dimensions are given as 1mm for the width of the central feature and 15mm for the width of the layers to its right. The bottom part is a graph of temperature versus position. The y-axis shows temperatures: 88.4°C, 78.9°C, and 50°C. The curve starts at 88.4°C, remains constant for a distance, then drops sharply through 78.9°C to 50°C. A vertical line from the 1mm dimension in the schematic above aligns with the start of the temperature drop.

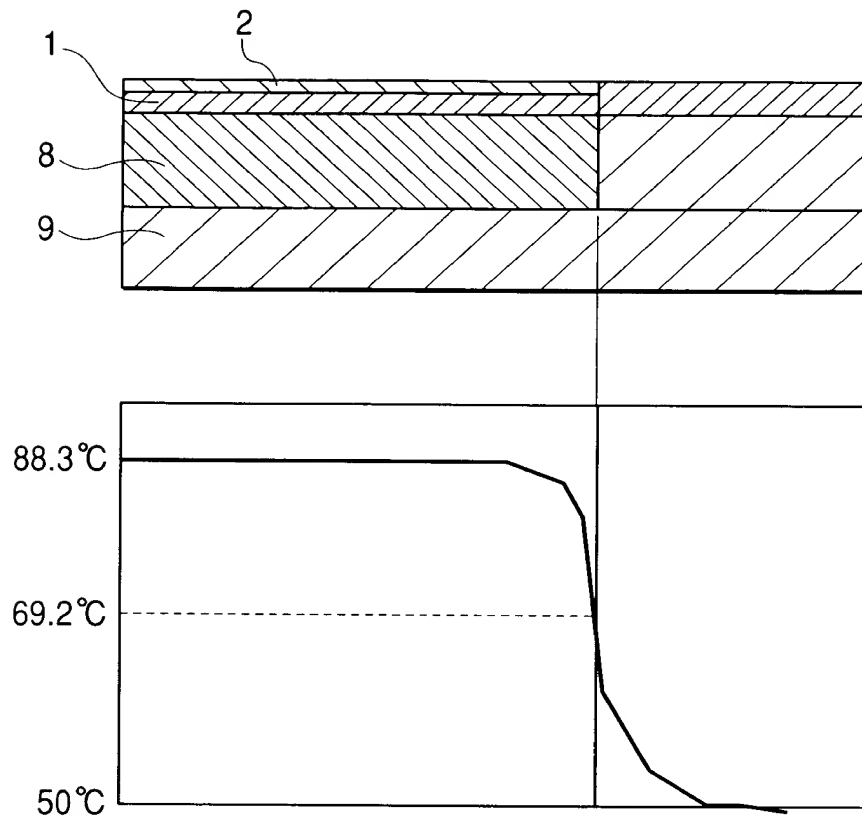


Figure 1 consists of two parts. The top part is a schematic diagram of a test specimen. It shows a cross-section with several layers: a top layer (1), a middle layer (2), a bottom layer (8), and a base layer (9). A central cavity (61) is located in the middle layer. The width of the cavity is 2mm, and the width of the middle layer is 15mm. The bottom part is a temperature profile graph. The y-axis represents temperature in degrees Celsius, with values 50, 86.2, 88.4, and 92.4. The x-axis represents distance. The profile shows a constant temperature of 88.4°C for most of the length, a slight increase to a peak of 92.4°C, and then a sharp drop to 86.2°C, followed by a gradual decrease to 50°C.

Figure 1 consists of two parts. The top part is a schematic diagram of a specimen cross-section. It shows a rectangular block with a central cavity labeled 61. The block is divided into four horizontal layers: 1 (top, hatched with diagonal lines), 2 (second from top, hatched with diagonal lines), 8 (third from top, hatched with diagonal lines), and 9 (bottom, hatched with diagonal lines). The cavity 61 is 1mm wide and 25mm deep. The bottom part is a temperature profile graph. The y-axis represents temperature in °C, with values 88.3°C, 79.2°C, and 50°C. The x-axis represents position. The temperature is constant at 88.3°C, then drops to 79.2°C at the cavity, and finally drops to 50°C.

FIG. 12



*FIG. 13**FIG. 14*

GAP SIZE	TEMPERATURE DISTRIBUTION
INNER SIDE 1mm, OUTER SIDE 15mm	9.5°C
INNER SIDE 2mm, OUTER SIDE 15mm	6.2°C
INNER SIDE 1mm, OUTER SIDE 25mm	9.1°C
INNER SIDE 2mm, OUTER SIDE 25mm	5.7°C
NO GAP	19.1°C